

70591 U.S. PTO
07/02/97

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Roeske, Roger W.
- (ii) TITLE OF INVENTION: LHRH Antagonist Peptides
- (iii) NUMBER OF SEQUENCES: 6
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: LAHIVE & COCKFIELD
(B) STREET: 60 State Street, Suite 510
(C) CITY: Boston
(D) STATE: Massachusetts
(E) COUNTRY: USA
(F) ZIP: 02109-1875
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 08/480,494
(B) FILING DATE: 07-JUN-1995
(C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: DeConti, Giulio A.
(B) REGISTRATION NUMBER: 31,503
(C) REFERENCE/DOCKET NUMBER: PPI-007
- (ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (617)227-7400
(B) TELEFAX: (617)227-5941

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
- Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
1 5 10

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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= Xaa is pyroglutamyl or acetylsarcosine

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 3
- (D) OTHER INFORMATION: /note= Xaa is Trp or 3-(2-naphthyl)alaninyl

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (D) OTHER INFORMATION: /note= Xaa is N-methyl-Ala, Tyr, N-methyl-Tyr, Ser, N-ε-2-propyl-lysiny, (4'-chlorophenyl)alaninyl, His, Asn, Met, Ala, Arg or Ile

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /note= Xaa is an amino acid having a side chain comprising a dipolar moiety

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 7
- (D) OTHER INFORMATION: /note= Xaa is Leu or Trp

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 8
- (D) OTHER INFORMATION: /note= Xaa is N-ε-2-propyl-lysiny, Gln, Met or Arg

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10
- (D) OTHER INFORMATION: /note= Xaa is Gly-NH₂

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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cont

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Xaa His Xaa Ser Xaa Xaa Xaa Xaa Pro Xaa
1 5 10

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= Xaa is pyroglutamyl or acetylsarcosine

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 3
- (D) OTHER INFORMATION: /note= Xaa is Trp or 3-(2-naphthyl)alaninyl

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (D) OTHER INFORMATION: /note= Xaa is N-methyl-Ala, Tyr, N-methyl-Tyr, Ser, N-ε-2-propyl-lysiny, (4'-chlorophenyl)alaninyl, His, Asn, Met, Ala, Arg or Ile

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /note= Xaa is an amino acid having a side chain comprising a cationic moiety

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 7
- (D) OTHER INFORMATION: /note= Xaa is Leu or Trp

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 8
- (D) OTHER INFORMATION: /note= Xaa is N-ε-2-propyl-lysiny, Gln, Met or Arg

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10
- (D) OTHER INFORMATION: /note= Xaa is Gly-NH₂

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Xaa His Xaa Ser Xaa Xaa Xaa Xaa Pro Xaa
1 5 10

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= Xaa is pyroglutamyl or acetylsarcosine

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 3
- (D) OTHER INFORMATION: /note= Xaa is Trp or 3-(2-naphthyl)alaninyl

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 5
- (D) OTHER INFORMATION: /note= Xaa is N-methyl-Ala, Tyr, N-methyl-Tyr, Ser, N-ε-2-propyl-lysiny, (4'-chlorophenyl)alaninyl, His, Asn, Met, Ala, Arg or Ile

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /note= Xaa is an amino acid having a side chain comprising a receptor-modifying moiety

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 7
- (D) OTHER INFORMATION: /note= Xaa is Leu or Trp

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 8
- (D) OTHER INFORMATION: /note= Xaa is N-ε-2-propyl-lysiny, Gln, Met or Arg

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- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 10
 (D) OTHER INFORMATION: /note= Xaa is Gly-NH₂

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Xaa His Xaa Ser Xaa Xaa Xaa Xaa Pro Xaa
1 5 10

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 1
 (D) OTHER INFORMATION: /note= Xaa is pyroglutamyl or
 acetylsarcosine

- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 3
 (D) OTHER INFORMATION: /note= Xaa is Trp or
 3-(2-naphthyl)alaninyl

- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 5
 (D) OTHER INFORMATION: /note= Xaa is N-methyl-Ala, Tyr,
 N-methyl-Tyr, Ser, N-ε-2-propyl-lysiny, (4'-chlorophenyl)alaninyl, His, Asn, Met, Ala, Arg or Ile

- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 6
 (D) OTHER INFORMATION: /note= Xaa is an amino acid having a
 side chain comprising an N-acyl hydrophilic moiety

- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 7
 (D) OTHER INFORMATION: /note= Xaa is Leu or Trp

- (ix) FEATURE:
 (A) NAME/KEY: Modified-site

- (B) LOCATION: 8
(D) OTHER INFORMATION: /note= Xaa is N-ε-2-propyl-lysinyI,
Gln, Met or Arg

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 10
(D) OTHER INFORMATION: /note= Xaa is Gly-NH₂

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Xaa His Xaa Ser Xaa Xaa Xaa Pro Xaa
1 5 10

- (2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: peptide

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /note= Xaa is pyroglutamyl or
acetylsarcosine

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 3
(D) OTHER INFORMATION: /note= Xaa is Trp or
3-(2-naphthyl)alaninyl

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 5
(D) OTHER INFORMATION: /note= Xaa is N-methyl-Ala, Tyr,
N-methyl-Tyr, Ser, N-ε-2-propyl-lysinyI,
(4'-chlorophenyl)alaninyl, His, Asn, Met, Ala, Arg or Ile

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(D) OTHER INFORMATION: /note= Xaa is an amino acid having a
side chain comprising a small polar moiety

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 7

cont

(D) OTHER INFORMATION: /note= Xaa is Leu or Trp

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 8

(D) OTHER INFORMATION: /note= Xaa is N-ε-2-propyl-lysiny, Gln, Met or Arg

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 10

(D) OTHER INFORMATION: /note= Xaa is Gly-NH₂

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Xaa	His	Xaa	Ser	Xaa	Xaa	Xaa	Xaa	Pro	Xaa
1				5				10	

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